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Learning groups: the effects of group diversity on the quality of group reflection

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ABSTRACT

This study explores the quality of reflection, and how group diversity affects group reflection by final-year accounting and finance undergraduates using Mezirow's [(1991). *Transformative dimensions of adult learning*. San Francisco, CA: Jossey-Bass] reflection model. Group work and reflective writing are now common assessment features in UK higher education. They affect students' perception of their learning experience ([Ledwith, S., & Seymour, D. (2001). Home and away: Preparing students for multicultural management. *The International Journal of Human Resource Management*, 12(8), 1292–1312]; [Chirema, K. D. (2007). The use of reflective journals in the promotion of reflection and learning in post-registration nursing students. *Nurse Education Today*, 27(3), 192–202]) and enhance the acquisition of transferable skills by students. Using content analysis and independent *t*-test, this study reports the prevalence of process and content reflection, but limited instances of premise reflection. Gender composition seems to matter for group outcome. Group nationality diversity and whether a group has more placement (Placement is a mode of undertaking degree programme in the UK where a student voluntarily undertakes a yearlong industry work experience as part of the programme, sandwiched between the second and final year of the degree.) students do not seem to affect the quality of group reflection for the students in the sample. The study includes policy implications for the continued use of learning groups and reflection in assessments in higher education.

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Assessment of group reflection; learning group; group diversity; group work; accounting and finance

Introduction

This study addresses the question of whether or not accounting and finance undergraduates undertake reflection on their learning, and the quality of their reflection when working in a group situation.

Understanding the presence and the quality of reflection in students' reflective statements in a group setting is important because both reflection and group work are increasingly being used in higher education as assessment methods, and they affect students' learning experience and performance. Enhancing students' learning experience and

their academic performance are specific objectives that are relevant to accounting educators anywhere in the world. Therefore, this study is useful to an international accounting education audience.

This study applied Mezirow's (1991) reflection model on the content of student group reflection to assess their quality. Given the importance of group work in higher education and evidence showing that group diversity could impact group outcome, the study explores the relationship between the quality of group reflection and some group diversity variables. The study used content analysis to measure the quality of reflection and applied independent *t*-test to generate deeper understanding of the relationship between the quality of group reflection and selected group diversity features.

Although previous studies have examined the quality of reflection in students' reflective statements, they are predominantly in health and allied disciplines. Furthermore, existing studies on reflection have focused entirely on individual reflection (Chirema, 2007; Schön, 1983). However, reflection in a group situation is likely to be inter-personal and could be affected by group diversity features (Akindayomi, 2015; Elfenbein & O'Reilly, 2007).

Whilst research into group work and group diversity mainly focuses on diversity in organisations' work groups, it is important to understand how diversity in learning groups could affect group outcomes (e.g. group reflection quality) in an educational setting. Understanding the impact of learning group diversity on such outcome will directly contribute to ongoing debates on the pedagogical merits of group work and reflection in assessments in higher education (Elliott & Reynolds, 2014).

Contributions of the study

The study contributes to the reflection, group work and group diversity literature by analysing the quality of the reflection in the reflective statements of accounting and finance undergraduates, and extending the literature on the assessment of the quality of reflection to the accounting and finance disciplines. Unlike extant literature that mainly focuses on individual reflection, this study explores group reflection and therefore deepens our understanding of reflection in a group context. The study also extends the empirical context of research in group work and diversity by exploring the effects of group diversity features on learning groups in educational setting. Furthermore, the study highlights the importance of appropriate group selection, faculty training, student support and appropriate group task as part of the key success factors for group work in higher education.

The rest of the study is structured as follows: the section 'Literature review' presents the literature and develops the research questions for the study, the section 'Study design and methodology' presents the study design and methods, section 'Results' presents the results and additional analysis, section 'Discussion' presents the discussion and section 'Conclusion' presents the conclusion and limitation.

Literature review

This section reviews the relevant literature on reflection, group work and group diversity. It then justifies the group diversity features considered, and presents the research questions addressed in this study.

Reflection: meaning and theoretical models

Reflection has many different definitions (Plack, Driscoll, Blissett, McKenna, & Plack, 2005). For example, Boyd and Fales (1983) define reflection as the process of identifying lessons from past experiences. According to Boud, Keogh, and Walker (1985), it is the cognitive and affective behaviour of individuals through which they generate new insights and deeper understanding of their experiences. Prior studies have emphasised the importance of student reflection on completed modules and their application to relevant modules to be studied in the future (Marriott, 2009; Schön, 1983). Collins (1990) argues that reflection offers students the chance to assess their past actions and decisions before going ahead to make an informed decision in the future. According to Coulson and Harvey (2013, p. 401), 'reflection is a tool for promoting learning and higher order thinking skills, developing professional practice and facilitating and structuring learning through experience'. These studies seem to imply that reflection is an important tool in the learning process, through which students assess, understand and learn based on their own experiences (Marriott, 2009).

To stimulate effective reflection by students, studies (Bell, Kelton, McDonagh, Mladenovic, & Morrison, 2011; Moon, 2006) have suggested the use of a journal. According to Moon (2006, p. 2), a learning journal is 'an essential vehicle for reflection'. It is the product of the writer's reflection process. These studies imply that students benefit from keeping learning journals by documenting, reviewing and sharing whatever they learn. It can therefore be argued that keeping learning journals has the potential to increase students' understanding. Based on the discussion above, this study takes the view that keeping a learning journal enhances effective reflection on learning experience.

Mezirow's reflection model

Although previous studies (e.g. Boud et al., 1985; Schön, 1983) have suggested several theoretical models to explain reflection, Mezirow's (1991) model of reflection seems more persuasive because compared to other models, Mezirow (1991) makes a clear distinction between reflective and non-reflective actions and also provides a categorisation of reflection. Mezirow (1991) categorised non-reflective action into habitual action, thoughtful action and introspection (i.e. the last two rows in Figure 1). He describes habitual actions as actions that are based on habit and partial review of experiences and describes thoughtful action as the 'selective review of prior learning rather than a deliberate appraisal or reappraisal of it' (p. 107). According to Mezirow (1991), introspection relates to what we feel about ourselves and others without the reflective element that makes us question how and why we feel the way we do.

Furthermore, Mezirow (1991) categorised reflective action into content, process and premise¹ reflection. He described content reflection as the reflection based on 'what we perceive, feel or act upon' (p. 107). It is the reflection on what we learnt, and describes the learner's desire and ability to establish a link between past knowledge and experience, and the contents of current learning. Mezirow (1991) describes process reflection as an 'examination of how one performs the functions of perceiving, thinking, feeling, or acting and an assessment of the efficacy in performing them' (p. 108). Finally, he describes premise reflection as the state of 'becoming aware of why we perceive, think, feel or act as

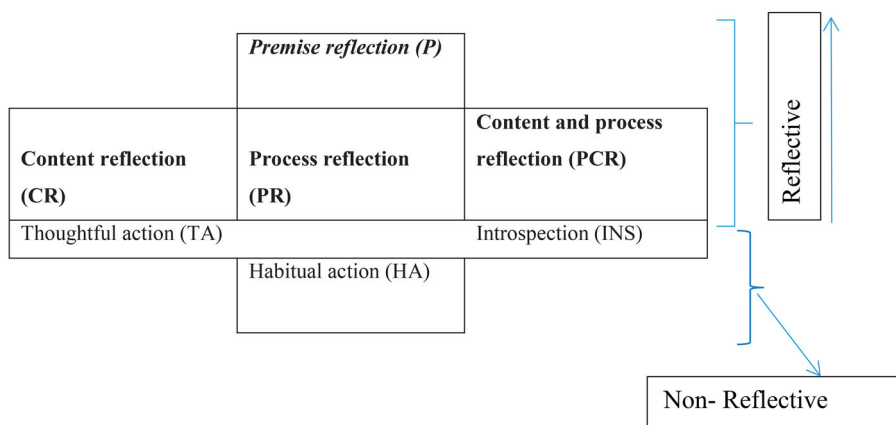


Figure 1. Categories of reflective action. Source: Adapted from Kember (1999).

we do' (p. 108). Mezirow (1991) considers premise reflection as a higher order reflection, because of the transformational thinking involved. This may indicate the ability to contextualise meanings and processes in order to arrive at a critical perspective on issues. He suggested that the level of reflective thinking is increasing bottom up, in the order shown in Figure 1.²

This study uses Mezirow's (1991) reflection model described above to analyse the quality of reflection reports submitted by a cohort of accounting and finance undergraduates in a UK university. The next sub-section highlights the debates relating to the assessment of the quality of reflection.

The assessment of the quality of reflection

A major controversy in the literature surrounds whether reflective journals should be assessed at all, aside from the debate on how to assess them. Some authors argue that reflection is inherently complex and subjective and it is not practically possible to reduce them to satisfactory measurable quantity (Bourner, 2003; Brookfield, 1987). Others feel that the measurement of reflection is not the primary objective of asking students to reflect, rather it is to encourage them to develop the ability to question their taken-for-granted assumptions about their learning and knowledge development (Lucas & Tan, 2014).

However, proponents of assessing reflective journals argue that the purpose of asking students to maintain reflective journals is to encourage them to engage in actual reflection and this objective would be defeated if there is no mechanism of knowing whether students actually reflect or not (Kember, McKay, Sinclair, & Wong, 2008; Loo & Thorpe, 2002). Based on the arguments that the primary objective of asking students to reflect on learning is to enhance their learning experience and because it is necessary to assess this process in order to discern if students are indeed learning through reflection, this study takes the view that assessing the quality of reflection is consistent with the pedagogical aspiration of using reflection as an additional learning mechanism in higher education. We provide a review of the existing literature on the assessment of the quality of reflection in students' reflective statements in the next section.

Previous studies on the assessment of the quality of student reflection

Studies on the assessment of reflection report conflicting results probably due to the different reflection models used. These studies are mainly within health and allied fields (Plack et al., 2005) and their findings may not be applicable to other disciplines. Assessing the quality of reflection in reflective statements is challenging and complex (Kember, 1999). This is because reflection is subjective and person-specific. Consequently, existing studies (Bell et al., 2011; Plack et al., 2005) have concentrated, and rightly so, on achieving consistency and reliability in identifying and correctly categorising reflection in students' reflective writing and they have generally reported reasonable inter-coder agreements.

Evidence on the components of reflection in students' writing is inconclusive; while some studies report high reflection, others found low or no evidence of reflection or critical reflection. For example, Plack et al. (2005) find that 15% of students' reflective journals contained no reflection, 43% had evidence of reflection and 42% had evidence of critical reflection. These findings are similar to the results in Thorpe (2004) who reports a high reflection component in the assessment of 52 journals completed by nursing students. She also found that 15–39% of the students are non-reflectors and at least 12% of the students are critical reflectors. On the other hand, Bell et al. (2011) report a 65% non-reflection and 35% reflection in the content of the journals examined. Similarly, Samkin and Francis (2008) report a 60% non-reflection in their assessment of 20 reflective journals maintained by third-year financial accounting students.

However, none of these studies considered reflective writing in a group context and only one examined reflection within accounting and finance subject area. Reflection in a group context is likely to be different from individual reflection because it will probably require students to interact with each other in order to develop, 'negotiate, compromise and mutually reach agreement' on the content of their reflective report (Akindayomi, 2015, p. 103). Given the increasing use of group work in higher education (Akindayomi, 2015; Curşeu & Pluut, 2013), and the requirement for students to produce reflective reports, it is important to understand the nature of reflective reports produced by students and to establish if indeed students reflect on their learning. Consequently, the first aim of this study is to assess the quality of group reflection in the group reflective reports prepared by the final-year accounting and finance students in a UK university's Business School in order to identify if they contain reflection and the types of reflection they contain using Mezirow's (1991) reflection model described earlier. Therefore, the first research question of this study is:

RQ1: What is the quality of the reflection in accounting and finance students' group reflective statements?

Group work and group diversity

This sub-section explains group work and group diversity. It also justifies the choice of group diversity features used in the study. A summary of the key points is then provided.

Group work in higher education

There is a growing use of group work³ in higher education (Akindayomi, 2015; Elliott & Reynolds, 2014). This could be class-based, for example, group discussion or group tasks;

or outside class, for example, group assignments. The pedagogical aspirations of work-based learning are part of the primary foundations for the use of group work in higher education (Davies, 2009). This type of learning develops from the objective to link students' learning approaches and experiences to the acquisition of transferable skills that are required in a work environment (Daly, Hoy, Hughes, Islam, & Mak, 2015). Proponents of this idea argue that group work equips learners with important team skills (Curşeu & Pluut, 2013) and group reflection requires interaction between the group members. Ideally, this will involve debates and discussions, and will require several communication skills, which may involve group engagements, contests, negotiations, concessions and consensus (Akindayomi, 2015). Thus, reflection in such a situation is an interdependent cognitive task (Curşeu & Pluut, 2013), which requires active involvement of group members. Learning in groups enhances students' problem-solving skills, as they learn to share and modify their views in the context of other ideas (Daly et al., 2015). Group work is also crucial in a work environment and introducing students to their use in higher education could enhance student employability.

However, recent literature evidence suggests that there is no consensus on the probity of using group work in higher education (Akindayomi, 2015; Daly et al., 2015; Ledwith & Seymour, 2001). This is because despite its perceived benefits, group work can be counterproductive, for example, due to the free-rider problem (Davies, 2009) where a member of the group puts in less effort but obtains equal benefit. Some students consider group work to be stressful and improvident because of the amount of time and effort needed to organise group meetings and achieve group objectives (Livingstone & Lynch, 2000). Literature suggests that students believe that their individual assessment is a better reflection of their ability than group work (Ledwith & Seymour, 2001). In order to improve the effectiveness of group learning, Daly et al. (2015) note the importance of lecturers using appropriate strategy in supporting students to develop group work skills, for example, through preliminary alliance-building activities. This observation is important because lack of experience and training on the part of lecturers using work group could hinder the development of group work skills (Elliott & Reynolds, 2014). The debate on the merits of group work in higher education is inconclusive and its success may depend on the expertise and approach used by lecturers adopting this approach to learning.

Group diversity

This section discusses group diversity and justifies the choice of group diversity features considered in this study. It argues that gender, placement experience and nationality diversity may be relevant in understanding the impacts of group diversity on group outcome (i.e. group reflection) in higher education, and provides appropriate research questions based on the discussions in the section.

Group diversity describes the different types of unique features through which a learning group can be distinguished (Elfenbein & O'Reilly, 2007). Existing literature on group work, mainly in the work environment, argues that the group outcome depends on group diversity because they enrich work groups with diverse experience, skills and competence (Kakabadse et al., 2015). Within an academic setting, Curşeu and Pluut (2013) show that

group diversity and the quality of teamwork affect group outcome if there is sufficient diversity in learning groups which ensures that each member of the group brings something new to facilitate learning within the group.

Although there are endless lists of diversity features through which a group could be distinguished (Elfenbein & O'Reilly, 2007; Milliken & Martins, 1996; Van Knippenberg, De Dreu, & Homan, 2004; Williams & O'Reilly, 1998), Van Knippenberg et al. (2004) note that practically, empirical research tend to focus on limited number of these diversity features, prominent amongst which are gender, race/ethnicity, nationality, age, tenure, educational and functional backgrounds. Current literature on group work in an educational setting provides limited guidance on the relative importance of the various group diversity features to group outcome. Thus, whilst there are several group diversity factors that could possibly affect group outcome, this study focuses on gender, nationality and placement experience for a number of reasons.

Extant studies observed that these features (Curşeu & Pluut, 2013, p. 91) are 'salient' group features that affect group outcomes in an internationalised higher education environment; yet, they have not been adequately analysed in recent literature. Furthermore, whilst the debate around gender representation in higher education and gender difference in educational attainment (Fallan & Opstad, 2014) and the increasing internationalisation of higher education (Crawford & Wang, 2015) have been studied extensively, limited studies have examined their impact on group work. Similarly, although previous studies have examined the impacts of placement experience (Lowry, 2003; Lucas & Tan, 2014) on students' cognitive and academic achievements, little is known about their impacts in a group context. The current study addresses these gaps in the literature. The following sections provide additional explanations on these diversity features and propose appropriate research questions.

Gender

Group gender diversity permits diverse perspectives and tolerance of the 'different others', which can enhance group awareness, flexibility and dynamics (Singh & Vinnicombe, 2004, p. 486). A single gender group has a higher predisposition to groupthink which could constrain its perspectives and experiences (Andreuski, Richard, Shaw, & Ferrier, 2014; Kaka-badse et al., 2015). However, a mixed group would benefit from diverse opinions and experiences that should enhance the quality of group reflection.

Although studies on the relationship between reflection and group diversity are limited, relevant literature within critical thinking skills and communication reports gender difference in group situations (Facione, Giancarlo, Facione, & Gainen, 1995; Naber & Wyatt, 2014; Wangenstein, Johansson, Björkström, & Nordström, 2010). For example, communication scholars argue that females tend to show cooperation, agreement and focus on building networks, while males are more assertive, opinionated, task-focused and categorical in their discourse (Myaskovsky, Unikel, & Dew, 2005; Wegge, Roth, Neubach, Schmidt, & Kanfer, 2008). Based on the literature above, it can be argued that the desire to build networks and show cooperation during group dialogue may affect the actual process and quality of group reflection in female-dominated groups, since reflection requires challenging taken-for-granted assumptions which at times may be inconsistent with building network or seeking agreement. It can also be argued, based on the literature

above that, being task-focused, groups with more males may be able to display openness and assertiveness in group dialogue and may therefore be able to engage in reflection.

On the other hand, male-dominated groups may become dysfunctional due to individual members becoming conceited, making group reflection ineffective (Myaskovsky et al., 2005; Wegge et al., 2008). The arguments above suggest that group gender diversity could possibly affect group outcome. Based on the argument above, we seek to explore whether group gender difference impacts the quality of group reflection. Our second research question is:

RQ2: To what extent does the group gender diversity affect the quality of group reflection?

Placement and the quality of group reflection

Students on the same year of a programme can be grouped in several ways. For example, it is possible to distinguish students based on whether they undertake placement or not (Crawford & Wang, 2015). Existing literature reports mixed findings on the effects of work experience on students' performance, behaviour and decision-making. While some studies found that work experience increases student emotional intelligence (Cook, Bay, Visser, Myburgh, & Njoroge, 2011), improves their academic performance (Gracia & Jenkins, 2003; Surridge, 2009) and leads to better ethical decisions (Eweje & Brunton, 2010), other studies report the absence of placement effects (Lowry, 2003; Lucas & Tan, 2014). In terms of reflection, placement students may have greater awareness and be more conscious of their learning than non-placement students, due to their exposure and work experience. Similarly, it is possible that placement students have greater reflective capacity and produce higher quality group reflection than non-placement students due to their exposures, maturity and experience.

Lowry (2003, p. 16), in a study of students' ethical awareness that explored the appropriate stage at which business ethics could be integrated into a Business School's curriculum, compared ethical awareness of second-year business undergraduate students to the final-year placement students. The study finds that placement students were lower in ethical awareness than second-year students, and suggests that this may be due to placement students' 'ethical bracketing', a situation where their experiences caused them to reconsider their ethical dispositions, and results in their limited ethical inclinations. Similarly, placement students could suffer from 'reflection bracketing'. This could be, for example, where their work experience led to their 'reflective disengagement'. This may be in a situation where they consider that reflection has little real-life practical usefulness in the work place. Lucas and Tan (2014, p. 796) note that 'placement experience does not appear to support students' cognitive development', just as anecdotal evidence suggests that students take a normative view of reflection and only engage in it if they have to, for example, for the purpose of assessment. Consequently, this study explores whether placement experience affects group outcome. The research question is formulated as:

RQ3: To what extent does the number of placement students in a group affect the quality of group reflection?

Nationality

Higher education is internationalised, and Chinese students are one of the largest groups (Crawford & Wang, 2015). One of the areas of interest in the literature is the Chinese

students' learning style, where growing number of studies paint a homogenous picture of the Chinese learner who learns through rote-learning and memorisation, depends on the teacher and may be alien to collaborative and reflective learning (Cooper, 2004; Grimshaw, 2007). These perceptions, in the context of reflection, imply that the Chinese learner may have a lower propensity to engage in reflective learning compared to the Western learner since it is new to them.

Furthermore, given that deep learners are more likely to be reflective learners (Leung & Kember, 2003) and tend to perform better than surface learners (Cassidy & Eachus, 2000; Kember, Jamieson, Pomfret, & Wong, 1995), one would expect that Western students should outperform their Chinese counterparts. However, literature evidence gives conflicting indications. Although Crawford and Wang (2015) report that international students and especially Chinese students underperform UK students, this finding is in conflict with the arguments in Cooper (2004) where Chinese students were reported to consistently outperform Australian students. Furthermore, in the context of reflection, it may be too simplistic to suggest that students' propensity for reflection is predictable simply due to their nationality. This is because reflection is cognitive and reflective tendency should be nationality neutral (Chirema, 2007). This study therefore explores whether nationality diversity could affect the quality of group reflection. The research question is:

RQ4: To what extent does the group nationality diversity affect the quality of group reflection?

Study design and methodology

This section explains the study design and the methodology used in the research.

The study

This study concentrates on students in a Business School at a UK post-1992⁴ university that has 4000 students and 250 faculty members. The accounting and finance department forms a key part of the school, representing the largest student cohort at both undergraduate and postgraduate levels. The department receives a large number of direct-entry students from China who normally join in the second year of a three-year BA in Accounting and Finance, BA Accounting and Business and BA in Accounting and Management programmes. Some students go straight into the final year of the programmes. The duration of the undergraduate programme is three years; four years for students who choose to do placement at the end of their second year. This study is based on an assessment component of the Auditing and Assurance module, which is a 15-credit module out of the maximum of 120 credits that a student could take in any academic year, and the 360 credits that a student needs to pass to gain a Bachelor's degree in the UK. It is a compulsory final-year module for all BA Accounting and Finance students and is an elective for other programmes with accounting components. The total number of students enrolled on this exempting⁵ module during the period of this investigation was 255. Assessment on the module had two components, the examination and a group-based course work. This study is based on the course work component, which accounts for 30% of the total module mark. The next section discusses the group formation.

Group formation

The literature presents two approaches to group formation in a collaborative learning environment. Firstly, where lecturers assign students to groups either randomly or selectively and secondly, where students self-select their group members⁶ (Chapman, Dan Toy, & Wright, 2006; Davies, 2009; Strauss, Alice, & Young, 2011). There is no consensus in the literature on the best approach. For example, whilst Chapman et al. (2006) observe that lecturer-assigned groups may allow greater diversity and balance of skills amongst student groups, and if done randomly, it may be seen to be fair by students, Bacon, Stewart, and Anderson (2001) note that such selection process may not really be fair, as lecturers have the chance to potentially determine students' performance based on the group they decided to place them in.

A major concern with self-selected group is that students may prefer to work only with their friends, a problem Chapman et al. (2006, p. 560) referred to as 'cronyism'. Cronyism may affect group outcome if friendship gets in the way of group tasks and if it affects group cohesion, for example, if the other group members become left out, a phenomenon that Bacon et al. (2001, p. 9) referred to as the 'remainder problem'. On the other hand, Myers (2012) reports higher commitment, trust, relational satisfaction and more effective learning when students were allowed to work with their friends in self-selected groups than assigned groups. Similarly, Chapman et al. (2006), in an experimental study on the effects of group selection methods on group outcome, report that self-selected groups seem to have higher sense of friendship, better communication, and better outcome than assigned group. Based on the arguments above, students were allowed to form a group of five for the group assignment at the beginning of the academic year in September 2012.⁷ However, consistent with suggestions by Davies (2009), students were provided extensive briefing on the implications of group selection. The next section discusses the group task.

Group task

The success of a group work depends, among other things, on the suitability of the task (Curşeu & Pluut, 2013). Davies (2009, p. 570) suggests that additive tasks, 'where each member of the group adds something to the task i.e. there are inputs from each group member forming a composite whole', are the most suitable for group work. Although individual tasks are independent, they are also integral part of the overall task, where the output from one task serves as part of the input in the other task. This type of task ensures that each member of the group interacts with the different task components (Strobe, Diehl, & Abakoumkin, 1996). Our study reports the outcome of an additive task, where students were required to undertake an empirical research on auditor independence and to write a 5000-page essay based on the research and a reflective report. The reflective report accounted for 10% of the total assignment mark. Although students kept individual reflective journals, they had to submit a single group reflection report, further ensuring group interactions (Akin-dayomi, 2015). The group reflection report was a minimum of 100 words and a maximum of 1000 words. The assignment including the reflective statement was submitted in April 2013 allowing the group to mature in their interaction (Daly et al., 2015; Davies, 2009).

Data

This section describes the data used in this study. It explains the data and the ethical considerations regarding data collection and usage.

The data for this investigation were based on the reflective report submitted by the final-year students on the auditing and assurance module described earlier. The reflective reports form the basis of the measurement of the quality of group reflection, using content analysis. Information regarding gender, nationality and placements were obtained at the departmental level through the module enrolment list and students database. Appropriate university ethical approval was obtained for the study. Students' confidentiality and anonymity were assured. We collected and anonymised the group reflection from the 41 groups. Consistent with Kember et al.'s (2008) suggestion, we based our assessments of the quality of reflection on the entire entry by each group using paragraph as unit of analysis. We describe the sample selection in the next section.

Sample selection

The module had 255 students; ideally, there should be 51 groups; however, some groups consisted of less than five members; a few groups had six members. To be included in the study, a group must have submitted a group reflective statement and have a group score in the assignment. Eleven groups did not include a group reflection. Thus, the final analysis was based on 41 groups with an average of 5 members in a group. The sample size in this study is comparable to previous group-based studies (Elfenbein & O'Reilly, 2007; Stewart & Johnson, 2009). Table 1 shows the sample selection procedure. The next section describes the variables and their measurement.

Variable measurement

This section explains the variables, their measurements and the sources of the data used. It starts with the explanations of the measurement of the quality of group reflection variable and then the diversity features.

The quality of group reflection. We based our measure of reflection on the Mezirow's (1991) reflective model explained in the section 'Literature review' because it offers a clear description of the concept and the process of reflection. We used content analysis to derive the quality of group reflection.

Content analysis. Content analysis 'is a systematic and objective means of describing and quantifying phenomena' (Elo & Kyngäs, 2008, p. 108). It enhances the empirical testing of phenomena through quantification of narrative information which could lead to better understanding of a phenomenon that otherwise may be inaccessible to empiricism (Krippendorff, 1980). Although content analysis is growing in popularity within accounting and finance research (Guthrie, Ricceri, & Dumay, 2012), it should only be used if the concept in the research can be adequately reduced to data that describes the phenomenon being

Table 1. Sample selection criteria.

Description	Number
Total number of students on the module	255
Expected number of groups (5 in a group)	51
Actual number of groups	52
Less groups without reflective statements	11
Total groups in the study	41

studied (Elo & Kyngäs, 2008; Elo et al., 2014). It is common to use coding scheme in studies with content analysis (Guthrie et al., 2012). We discuss our coding scheme in the next section.

Coding scheme. To enhance our use of content analysis, we followed Kember et al.'s (2008) and Bell et al.'s (2011) suggestions to maintain a clear coding scheme. Our coding scheme involves the following steps:

- (1) Each reflective writing is read more than once to familiarise the coder with its content.
- (2) The Mezirow (1991) model is referred to, so as to identify the key reflective dimensions.
- (3) The coder then reads the reflective statements again with the aim of classifying them along the Mezirow (1991) model.
- (4) Coders allocate HA, TA, INS, CR, PR, PCR⁸, P (see Figure 1) for each of the dimensions identified in the group reflective statements. We allocated 1 point for each of process, content and process and content reflection and allocated 2 points for premise reflection to reflect that it is higher.⁹
- (5) All the reflection scores are added to derive a total (No score is awarded to non-reflective statements, i.e. HA, TA, INS).
- (6) Group reflection is the sum of the total reflection scores awarded in a reflective statement to a group.

Implementation of coding scheme. Two researchers with considerable experience in using content analysis in empirical investigations did the coding (Elo et al., 2014). Inter-coder agreement calculated according to the method outlined in Krippendorff (1980, pp. 138–139) was 85%. An example of the coding procedures is shown below:

This is the reflective statement of group AA8 (Group 8 in the Auditing and Assurance assignment)

What new things you have learnt through the process of the research?

We have covered numerous aspects during this assignment. The research has allowed us to be more active and takes hands on approach, when conducting our primary research. We have learnt the significance if auditors independence and its importance in decisions making for users of financial statements. We have become much more aware of the issue of auditors independence and the current debate surrounding this topic (**CR**)

What did not go well and could have done differently?

We have recognised our limitations of our study and feel that whilst conducting the interviews, we should have recorded the conversations electronically to validate our research (**PR**). However, we did note down their responses but we were compromised due to being unable to record responses fully. Moreover, we could have planned our assignment schedule better through utilising out time more efficiently (**PR**)

What worked really well?

We have worked extremely well as a team and delegated responsibilities based upon the individual strengths of team members to maximise the quality of work (**PR**). All the members had attended and contributed to the report and helped each-other when it was necessary. We valued everyone's opinion and respected all the views, which has aided us in producing this quality report. We incorporated the use of Dropbox and WhatsApp to keep in regular contact with one another, as well as uploading documents to a shared file for all group members to view and make amendments as deemed necessary (**PR**)

What new knowledge, awareness and skills you have gained?

As a group, we have been able to develop skills in preparing objective questionnaires. We have been able gather relevant and appropriate information from secondary sources in order to evaluate our findings. Also, from gathering the information we have learnt the importance of confidentiality and its processes (**PCR**).

For example, in the first paragraph of the example reflective statement above, we identified features that fall within Mezirow's (1991) definition and description of content reflection. Mezirow (1991) described content reflection in terms of what we perceive, see, think or act upon. The first sentence in the first paragraph of our analysed reflective statement described the coverage of the assignment, the second sentence reflects on what the assignment had made possible. The fact that the assignment has made them, the students, to be 'more active and take hands on approach when conducting the research'. The next sentence identified what has been learnt, that is, the content of the assignment, specifically on auditor independence, the debate around this and its importance to users of financial statements. Overall, this first paragraph of the reflective statement is clearly focusing on the contents of the assignment. The students, through the first paragraph of the reflective statement, 'perceived' that the assignment has made them to have a hands-on approach; they 'think' they now have a better understanding of the importance of auditor independence to users of financial statements and 'perceived' that they understand the debate around this more than before. Thus, we categorised this paragraph as a content reflection. We analysed the remaining parts of the reflective statement in a similar way to that highlighted above, and sum up all the reflection in it as below:

Reflective element = 6 (4 process, 1 content and 1 content and process reflection)

We followed similar procedure for all the remaining 40 reflective statements. This process generates the quality of group reflection score.

Diversity measures. We calculated group diversity (i.e. gender, placement experience and nationality) based on the proportion of a diversity variable to its group size. The next section explains the method of analysis used in the study.

Method of analysis. To answer the first research question, we analysed the various composition of the group reflection to identify the type of the reflection that are present in the group reflective reports. We used percentages to illustrate the differences in the types of reflection contained in the group reflective reports. To answer the three remaining research questions, we used mean difference analysis. This involves comparing the mean reflection scores of each group type to discover whether a particular group feature leads to difference in the mean group reflective scores. We used independent mean *t*-test to clarify if the differences are statistically significant or not. The next section presents the results of the investigation.

Results

This section presents the study results. The section starts with the descriptive statistics and then presents the other findings from the investigation and additional analysis.

Descriptive statistics

Tables 2 and 3 present the descriptive statistics. Table 2 comprises two panels. Panel A shows the demographic descriptive statistics of the sample. Female students

Table 2. Gender and cohort composition of the sample.

<i>Panel A: gender composition</i>		
	Gender	Percentage
Male	86	42
Female	119	58
Total	205	100
<i>Panel B: cohort composition</i>		
	Number	Percentage
Started from year 1 (3yrs) (no placement)	86	42
Direct-entry international students (2yrs)	74	36
Final-year entry international students (1 yr)	7	3.5
Placement students (4yrs)	38	18.5
Total	205	100

Table 3. Descriptive statistics.

Variables	Mean	Std.	Max.	Min.	Total	%	Obs.
Total reflection score	6.44	2.44	13.00	2.00	264	100	41
Process reflection	3.24	1.46	7.00	1.00	133	50	41
Content reflection	0.87	1.12	5.00	0.00	36	14	41
Process and content reflection	2.09	1.26	4.00	0.00	86	33	41
Premise reflection	0.44	0.95	4.00	0.00	9	3	41
Group size	4.75	0.85	6.00	4.00	na	na	41
Group assignment score	71.4	8.5	84	45	na	na	41

Note: na: not applicable.

constitute 58% of the sample, and panel B shows that the majority of the students joined in the first year and did not go on placements. Panel B also shows that 36% of the samples joined in the second year, a large proportion of these were Chinese students. Approximately 19% of the total sample went on placement. This is smaller than the proportion reported in Crawford and Wang (2015). Furthermore, the last two rows in Table 3 show that the mean group size was 5 and the average group score from the assignment was 71%.

In terms of the distribution of the group based on the diversity features considered in this study, there were three groups without a female student, 25 groups without a placement student and 25 groups without a Chinese student. Over 70% of the groups have five members. The following four sub-sections present the results of the four research questions.

What is the quality of the reflection in the group reflection reports?

We answered this question by analysing the contents of the reflective reports submitted by the groups using Mezirow (1991) model as explained in the section ‘Literature review’. The coding procedures and schemes were explained in the section ‘Study design and methodology’. Table 3 presents the findings on the group reflective reports from the 41 groups in the study. Recall that we provided a detailed explanation of the meaning and descriptions of the Mezirow’s (1991) reflection model in section 2. In summary, whilst process reflection focuses on ‘how’ learning took place, that is, the method, content reflection addresses ‘what’ has been learnt and premise reflection is the higher order reflection (i.e. critical reflection) which is assumed to lead to learning transformation, for example, changed behaviour or perception.

All the reflective statements have elements of process reflection. The average reflective report has three process reflection, one content reflection, two process and content reflection and no premise reflection. No journal had more than two (i.e. a score of 4) premise reflection. Following the summation of all the reflection in all the reflective reports by categories, we found that there were 264 total reflection in the journals of which 133 representing 50% were process reflection, 36 (14%) were content reflection, 86 (33%) were process and content reflection and 9 (3%) were premise reflection. The findings indicate that students in the sample concentrate more on the process of learning in their reflection reports, followed by the content of their learning. The findings also show limited evidence of premise reflection in the content of the group reflection submitted. The majority of the reports do not contain any premise reflection and the highest had just two.

To what extent does the gender composition of a learning group affect the quality of group reflection?

We addressed this question through mean comparison of the mean reflection scores for the various groups in the sample based on gender composition. Table 4 panel A presents the results of this analysis. It shows that there were four female-only and three male-only groups, and shows the number of males relative to females in the remaining groups. The table also shows that the mean reflection score for the male-only groups is fractionally higher than the mean score for the female-only groups, but the difference is not statistically significant using independent mean *t*-test as shown in Table 4. Furthermore, as the number of males in a group increases compared to females, we found that the mean reflection scores increase progressively. For example, when there was one male in a group relative to females in the group, the mean reflection score was 5.7, and this increased to 6.9 when there were

Table 4. Gender and the quality of group reflection.

Panel A	Average values			Significance	
No. of male(s) in a group	Number of groups	Group size	Mean reflection score	Independent <i>t</i> -test	
All female	4	4	4.6	0.78	All female vs. 2 males = 0.03**
All male	3	4	5		All male vs. 2 males = 0.02**
1	13	5	5.7	1 male vs. 2 males = 0.08*	
2	10	5	6.9		
3	8	5	7.5	1 male vs. 3 males = 0.05**	All females vs. 3 males = 0.02***
					All males vs. 3 males = 0.01***
4	3	6	9		
Panel B					
Groups	No. of groups	Mean score			
Homogenous	7	4.75		0.006***	
Heterogeneous	34	7.63			

Note: The test recognised the unequal variance and Welch's approximation.

*Significance at 10% level.

**Significance at 5% level.

***Significance at 1% level.

two males in a group relative to females, and to 9 when there were four males in a group relative to females. And the differences are statistically significant as shown in Table 4. Furthermore, there were four groups with equal number of males and females in a group of four students with a mean reflection score of 6.25 (not tabulated). This is higher than the mean score in all-male or all-female groups but lower than when the number of males in a group increased beyond two in a group irrespective of the size of the group.

To provide further analysis, in panel B Table 4, we partitioned the groups into homogenous (all-male- and all-female-only groups) and heterogeneous groups and compared the mean reflection scores for these groups using independent mean *t*-test. The table shows that there is a statistically significant difference in the means scores with the heterogeneous groups scoring higher.

To what extent does the number of placement students in a learning group affect the quality of group reflection?

The third research question in this study explores whether group composition based on whether a student went on placement or not affects its reflective quality. Table 5 panel A presents the results of our analysis. It shows that there were five groups with all placement students and 25 groups with no placement students. The all-placement group had a mean reflection score of 5.8 compared to 6.7 for the no-placement group, but the difference is not statistically significant using independent mean *t*-test. The two groups with two placement students have the highest mean reflection score of 11. On the other hand, the six groups with just one placement student in the group have the lowest mean reflection score of 5.3, whilst groups with four placement students have a mean reflection score of 8. Panel B reports the result of comparing the reflective quality of the homogeneous and heterogeneous groups. The results from this analysis do not seem to show any specific consistent pattern. None of the differences is statistically significant.

To what extent does the nationality composition of a learning group affect the quality of group reflection?

Similarly, we used mean difference to explore the impact of nationality composition of a learning group on the quality of group reflection. Table 6 presents the results of our analysis. It shows that there are 13 groups with wholly Chinese students compared to 25 groups with

Table 5. Placement and the quality of group reflection.

Table 2. Placement and the quality of group reflection.				
Panel A		Average values		Significance Independent <i>t</i> -test
No. of placement student in a group	No. of group	Group size	Mean reflection score	
All placement	5	4	5.8	0.66
0	25	5	6.7	
1	6	4	5.3	
2	2	6	11	
4	3	5	8	
Panel B				
Groups	Number of groups		Mean reflection score	
Homogenous	30		6.4	0.67
Heterogeneous	11		6.6	

Table 6. Nationality and the quality of group reflection.

Panel A		Average values		Significance Independent t-test
No. of Chinese students in a group	No. of group	Group size	Reflection score	
All	13	5	6.6	0.38
0	25	5	6.9	
2	2	5	7	
3	1	5	5	
Panel B				
Groups	No. of groups	Mean reflection score		
Homogenous	38	6.7		0.06*
Heterogeneous	3	9.6		

Note: The test recognised the unequal variance and Welch's approximation.

*Significance at 10% level.

no Chinese student. There were two groups with two Chinese students and one group with three Chinese students. The all-Chinese learning groups have a marginally lower (6.6) mean reflection score compared to the groups without any Chinese student (6.9). The groups with two Chinese students have the highest mean reflection score of 7 compared to the lowest score for the only group with three Chinese students. None of the differences is statistically significant. However, when we partitioned the groups into homogenous and heterogeneous groups, we observed that heterogeneous (9.6) groups have a higher and marginally significant mean reflection score compared to homogenous (6.7) groups.

Additional analysis

Given that extant literature, Davies (2009) notes that group size could affect group outcome and that reflection enhances student performance (Chirema, 2007), this subsection presents the results of the additional analyses on the correlations between the quality of group reflection, group size and group score in the assignment for which the reflection forms a component.

Table 7 presents the results. It shows that there is a statistically significant positive correlation between group reflection score and both group size (0.326) and group assignment score (0.390) and these are significant at the 5% level. These suggest that higher group size is correlated with higher reflection score which is correlated with higher score in the group assignment. The next section discusses the results based on the literature.

Discussion

This section discusses the results presented in the section 'Results' in the context of the extant literature.

The section 'Results' reports high prevalence of process reflection and limited instances of premise reflection in the reflective reports submitted by the students in the sample.

Table 7. Quality of group reflection, group size and group assignment score.

	Reflection score	Group size	Group assignment score
Reflection score	1.000		
Group size	0.326**	1.000	
Group assignment score	0.390**	0.395**	1.000

**Represents significance at 5% level.

These results are consistent with the findings from previous studies including Plack et al. (2005) and Thorpe (2004) who reported high reflective components in students' reflective journals, but it is in contrast with Bell et al. (2011) and Samkin and Francis (2008) who reported high non-reflection components in students' journal. However, we found a very low premise reflection component (3%) compared to 42% and 15% reported, respectively, by Plack et al. (2005) and Thorpe (2004). This result may be driven by disciplines. Reflection and reflection practice have been a prominent feature of training in health and allied disciplines for a long time compared to accounting and finance and especially in higher education. These findings seem to suggest that accounting and finance faculty members requiring students to reflect as part of a group assignment or assessment may need to recognise the fact that students often find it difficult to engage in critical reflection and it may therefore be necessary to allocate sufficient time to providing necessary supports to enhance the quality of students' critical reflection because previous studies show that it impacts on student experience and performance (Bell et al., 2011; Moon, 2006).

Furthermore, using mean analysis and independent mean *t*-test, we find that gender composition of learning groups seems to matter for group outcome for the sample in this study. The quality of group reflection increased progressively with increase in the number of males in a group relative to females and the differences were statistically significant. Also, heterogeneous groups seem to have higher reflection quality than homogeneous groups. These results suggest that the gender composition of the group matters for group outcome. These findings are consistent with reported findings in studies (Curşeu & Pluut, 2013; Fallan & Opstad, 2014) that report gender difference in academic performance and cognitive complexity amongst learning groups, respectively. It suggests that faculty members using group work should pay attention to the gender composition of the group because it affects outcome. Whilst the debate on the best approach to group formation remains unresolved, whatever method of group formation that is adopted should recognise the gender diversity in learning group because it makes a difference. It is important to note that 11 groups did not submit reflection reports. It is possible that the result could be different depending on the composition of these groups. For example, if the groups are homogeneous, there is a potential that it could affect the outcome of the investigation, but this will also depend on the quality of the group reflection from these groups.

Our third research question explored whether the quality of reflection is affected by the proportion of a student group that went on placement. Whilst it may be expected that the reflective report from a group with high proportion of placement students will contain higher reflection quality, our findings seem to support the suggestion that placement does not really lead to students' cognitive development (Lucas & Tan, 2014) and that placement students may also be displaying 'reflective bracketing' based on Lowry's (2003) idea of placement students' 'ethical bracketing'. Lucas and Tan (2014, 796) further conclude that 'placement students were not exposed to situations where they had to make significant independent decisions, resolve conflicting views or exercise significant individual judgement over a sustained period', that could have developed their reflective capability. It is therefore not surprising that there seem to be no clear benefits of placement experience on the quality of group reflection in this study.

Similarly, we find that group nationality diversity does not have any statistically significant impact on the quality of group reflection produced by students in the sample. Our

findings conflict with Curşeu and Pluut (2013) in this instance, but support the fact that heterogeneous groups have higher reflective scores albeit marginally. Our additional analyses show that group size is positively correlated with reflection quality and this is also positively correlated with group score in the assignment. Our finding on group size supports Davies' (2009) warning about the importance of group size for group outcome.

Conclusion

This study explored the quality of reflection and the impacts of gender, placement experience and nationality diversity on the quality of group reflection for final-year accounting and finance students in a UK university's Business School. Reflection in a group context is different from individual reflection. Group reflection is externally constructed, and it is an example of high interdependent cognitive tasks.

Overall, our study highlights a number of important points that should be considered in using group work in higher education and the nature of reflection in reflective reports produced by accounting and finance undergraduates. We demonstrate that the level of critical reflection in the group reflective reports produced by accounting and finance undergraduates is low. This may indicate lack of understanding of the reflective process and may suggest the need for module leaders to spend more time in providing clear explanations of the objectives and process of reflection for students before asking them to reflect on learning and write reflective reports.

Our study shows that greater attention is required in emphasising the importance of experiential learning to students which reflective learning seeks to enhance. Reflection challenges taken-for-granted assumptions about the purpose and process of learning, and students working in a group can benefit from peer challenge of the learning process and experience that group reflection provide. This is reminiscent of the work-based learning objectives, which seeks to prepare learners for the realities of a work environment. Students need to appreciate the value of group working which is common practice in the work environment. However, there should be an effective support system that can address students' concerns and which they can find accessible to raise issues relating to group work.

This is because although the use of group assignments in higher education assessment is now very popular, it is however, important that programme and module leaders responsible for quality issues in assessment pay attention to the composition of learning groups. If, as we have found, learning groups' gender diversity may be related to group outcome, for example, the quality of group reflection, then students who are reluctant to be in certain groups because of their composition may be justified. However, what would then be more important is how lecturers making use of group work help students to form effective groups without defeating the main objectives of collaborative learnings especially in an atmosphere of increasing internationalisation of higher education. The practice where academics leave students to form their own group without any guidance may be counterproductive. Similarly, studies have shown that assigning students into groups does not make it fair, as lecturers may effectively, albeit inadvertently, be determining the performance of a cohort by so doing. Academics using group work need to ensure that there is fairness in group composition. A situation where some groups are larger than others may lead to unfair advantage given our results.

Although we found that groups with more female members underperform groups with more male members in reflection quality, this is still open to a lot of empirical investigations, and we would like to encourage future studies to consider the group dynamics and the role of gender in this. It is also important to understand clearly how group interactions serve as feedback to individual reflection within a group reflection context. For example, how do group members arrive at consensus on the content of group reflection and how group members' personality traits may affect this? This research highlights pertinent but under-researched issues within higher education, thereby providing direction for future studies.

Limitations

This research has a number of limitations. First, it is based on the students in a university and on a module, therefore results from this study may not be generalised. Secondly, there are several other diversity variables that could possibly affect group outcome which we did not consider in order to retain the main focus of this current study. Furthermore, group diversity and outcome may be affected by the nature of group task. It is possible that the findings may be different if group task was not additive and the focus was not quality of reflection. Nonetheless, findings from this study provide a veritable basis for future studies on group work and group reflection.

Disclosure statement

No potential conflict of interest was reported by the author(s).

Notes

1. The study used premise reflection interchangeably with critical reflection based on the description in Mezirow (1991) and Kember (1999).
2. The arrow besides the 'reflective action' indicates that the quality of reflection is increasing bottom up in reflective actions. Thus, the first two rows from bottom indicate non-reflective actions. Reflective actions in the third row are considered equal because they do not lead to changed premise or critical perspective. However, the level of reflection at this stage is lower than premise reflection in the last row which indicates the highest level of reflective action.
3. This paper uses group work interchangeably with collaborative and teamwork learning based on outside class group assignment.
4. UK universities can be broadly divided into two types: the traditional and the post-1992 universities. The traditional universities are older and the post-1992 universities are former polytechnics or institute of higher educations that were granted university status in 1992.
5. Exemptions are award of merit granted by professional accountancy organisations (such as Institute of Chartered Accountants in England and Wales, Association of Chartered Certified Accountants) in the UK and Ireland to recognise students' previous knowledge or qualifications so that they do not have to write a professional paper if they are deemed to have acquired the required knowledge from doing an exempting module as part of their university degree. University department seeking professional body's exemptions for a module would usually have to show that their syllabus covers the contents of the professional paper to be qualified for the exemption.
6. It is also possible to do this using software (See Akindayomi, 2015).

7. Although this study did not explicitly control for the impacts of friendship on group selection and outcome, the group selection method allowed students to make reasoned choice, following extensive guidance provided by the lecturer on the likely implications of group selection for group outcome.
8. We included 'process and content' reflection consistent with Kember (1999).
9. Our results were similar even when we allocated 1 mark for premise reflection. This may be because there were very few instances of premise reflection as equally observed by Kember (1999).

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